Serial No.: 09/770,848 Applicant: PATEL Atty. Ref.: MIDR:582--1

d) an amine surfactant having the structure

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$$R \longrightarrow N$$
 $(CH_2CHR'A)_x H$
 $(CH_2CHR'A)_y H$

wherein R is a C_{12} - C_{22} aliphatic hydrocarbon; R' is an independently selectable from hydrogen or C_1 to C_3 alkyl; A is NH or O, and $1 \le x+y \le 3$.

bL

4. (Amended) The invert emulsion fluid of claim 1 wherein said oleaginous fluid comprises from 5% to about 100% by volume of the oleaginous fluid a material selected from a group consisting of esters, ethers, acetals, di-alkylcarbonates, hydrocarbons, and combinations thereof.

B3

- 9. (Amended) The invert emulsion of claim 1 further comprising a bridging agent.
- 12. (Twice Amended) An invert emulsion fluid having utility for drilling completing, or working over subterranean wells, said fluid comprising:
 - a) an oleaginous liquid, said oleaginous liquid comprising from about 30% to about 99% by volume of said fluid;

- b) a non-oleaginous liquid, said non-oleaginous liquid comprising from about 1% to about 70% by volume of said fluid;
- c) a weighting agent; and
- d) an amine surfactant present in said fluid at a concentration of 0.1% to 5.0% by weight of said fluid, said amine surfactant having a structure of:

HÖWREY
SIMON
ARNOLD
& WHITE LLP

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BY

$$R \longrightarrow N$$
 $(CH_2CHR'A)_X H$
 $(CH_2CHR'A)_Y H$

wherein R is a C_{12} - C_{22} aliphatic hydrocarbon; R' is an independently selectable from hydrogen or C_1 to C_3 alkyl; A is NH or O, and $1 \le x+y \le 3$.

B5

14. (Amended) The invert emulsion fluid of claim 13 wherein said oleaginous fluid comprises from 5% to about 100% by volume of the oleaginous fluid a material selected from a group consisting of esters, ethers, acetals, di-alkylcarbonates, hydrocarbons, and combinations thereof.

24. (Amended) The method of claim 23 wherein said invert emulsion drilling fluid comprises:an oleaginous fluid;a non-oleaginous fluid;a weighting agent; andan amine surfactant having the structure

Bb

$$R$$
— N
 $(CH_2CHR'A)_XH$
 $(CH_2CHR'A)_YH$

wherein R is a C_{12} - C_{22} aliphatic hydrocarbon; R' is an independently selectable from hydrogen or C_1 to C_3 alkyl; A is NH or O, and $1 \le x+y \le 3$; and wherein the acid is functionally able to protonate the amine surfactant.